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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/645,295	08/21/2003	Yasuhiro Mori	051319/0055	7197	
29619 75	29619 7590 04/07/2006		EXAM	EXAMINER	
SCHULTE ROTH & ZABEL LLP ATTN: JOEL E. LUTZKER 919 THIRD AVENUE NEW YORK, NY 10022			COMPTON	COMPTON, ERIC B	
			ART UNIT	PAPER NUMBER	
			3726		

DATE MAILED: 04/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/645,295	MORI, YASUHIRO				
		Examiner	Art Unit				
		Eric B. Compton	3726				
Period fo	The MAILING DATE of this communication apr r Reply	opears on the cover sheet with the	correspondence address				
A SHO WHIC - Exter after - If NO - Failur Any r	ORTENED STATUTORY PERIOD FOR REPORTED IN A CONTROL OF THE MAILING IN THE MAILING	DATE OF THIS COMMUNICATIOn 136(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	ON. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed on						
, —	•	— is action is non-final.					
· <u> </u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
,	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)⊠	4) Claim(s) <u>1-8</u> is/are pending in the application.						
-	4a) Of the above claim(s) is/are withdrawn from consideration.						
	☐ Claim(s) 3-8 is/are allowed.						
· · · —	Claim(s) <u>1 and 2</u> is/are rejected.						
7)⊠ Claim(s) <u>3,5,6 and 8</u> is/are objected to.							
·	Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers						
9)□.	The specification is objected to by the Examir	ner					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	nder 35 U.S.C. § 119						
12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority documents have been received.						
•	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the pri	ority documents have been recei	ved in this National Stage				
	application from the International Burea	au (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment	(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date  3) Notice of Informal Patent Application (PTO-152)							
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date  5) \[ \sum \text{Notice of Informal Patent Application (PTO-152)} \]  6) \[ \sum \text{Other:}							

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#### **DETAILED ACTION**

#### Specification

1. The disclosure is objected to because of the following informalities: Section [0009], line 1, "The pivot" should read –the pivot.--.

Appropriate correction is required.

## Claim Objections

- 2. Claims 3 and 6 are objected to because of the following informalities: in line 6, before "pressure" there should be –applying—or similar verb. Appropriate correction is required.
- 3. Claims 5 and 8 are objected to because of the following informalities: in line 3, "a welding means" should read just –welding--, since means-plus-function language does not make sense in a method claim. Appropriate correction is required.

# Claim Rejections - 35 USC § 102

- 4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
  - A person shall be entitled to a patent unless -
  - (f) he did not himself invent the subject matter sought to be patented.
- 5. At least Claim 1 is rejected under 35 U.S.C. 102(f) because it appears that applicant did not (solely) invent the claimed subject matter. U.S. Pat. Pubs. 2004/0131292 & 2004/0120079, to Koyama and Tsuchiya, respectively disclose

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essentially the same invention as claim 1. However, the inventor of the instant invention Mori is different from the inventors of those references. It is noted that all three have a common assignee of MINEBEA CO., LTD.

## Claim Rejections - 35 USC § 112

- 6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 7. Claims 1-2 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1, recites, "An apparatus for a pivot assembly, comprising ..." a bearing assembly and a seal member. See Figure 1 (showing pivot assembly).

Claim 2, which depends from claims 2, recites structure for an assembly apparatus, e.g. means for supporting bearing assembly; means for imparting pressure to the seal member; and means for welding the seal member. See Figure 5 (showing pressing piece 7 and pad). The limitations of claim 2 are not part of the completed pivot assembly.

It seems that claim 2 is drawn to a different apparatus, namely an assembly apparatus for forming a pivot assembly, while claim 1, is drawn to a pivot assembly.

Therefore, the preamble of claim 1, "An apparatus for a pivot assembly ..." is ambiguous, since it is not clear if Applicant means the pivot assembly only as shown in

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Figure 1, the assembly apparatus only, or the combination of the two as shown in Figure 5.

# Allowable Subject Matter

- 8. Claims 3-8 are allowed.
- 9. The following is a statement of reasons for the indication of allowable subject matter: the prior art of record does not teach or suggest a method of manufacturing a pivot assembly comprising: imparting a pre-load to pressure to the inner ring by applying pressure on the seal member; and fixing the seal member to an outer circumference of the shaft, in combination with the other claimed subject matter.

#### Conclusion

- 10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- U.S. Pat. 5,529,404 discloses a similar invention, but does not discloses welding the pressing the seal to preload the bearings and then welding the seal.
- U.S. Pat. 5,882,122 discloses a similar invention, see Figure 6; Col. 24, lines 3-32, where bushes 29 are welding into place to preload bearings. Figures 8-9 show an alternate embodiment in where the bushes are replaced by "pressure member 32." See

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Col. 25, lines 45-59. However, the reference is unclear as to where the pressure member 32 is a seal. Note: U.S. Pat. 6,513,983 (same inventors and assignee), Col. 3, line 63 - Col. 4, line 10 (refers to same similar structure as "labyrinth seal," but is silent as to the assembly method, especially preloading).

JP 06-026525 suggests a similar invention for a wheel bearing.

#### Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric B. Compton whose telephone number is (571) 272-4527. The examiner can normally be reached on M-F 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Nguyen can be reached on (571) 272-4491. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Eric B. Compton Primary Examiner

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